

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/003338 A1

(51) International Patent Classification⁷: E21B 33/076

(21) International Application Number:
PCT/IB2003/003084

(22) International Filing Date: 30 June 2003 (30.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20023178 28 June 2002 (28.06.2002) NO
60/449,613 26 February 2003 (26.02.2003) US

(71) Applicant (for all designated States except US): ABB AS [NO/NO]; Postboks 94, N-1375 Billingstad (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HÅHEIM, Svein, Audun [NO/NO]; Odins Gate 5A, N-0266 Oslo (NO).

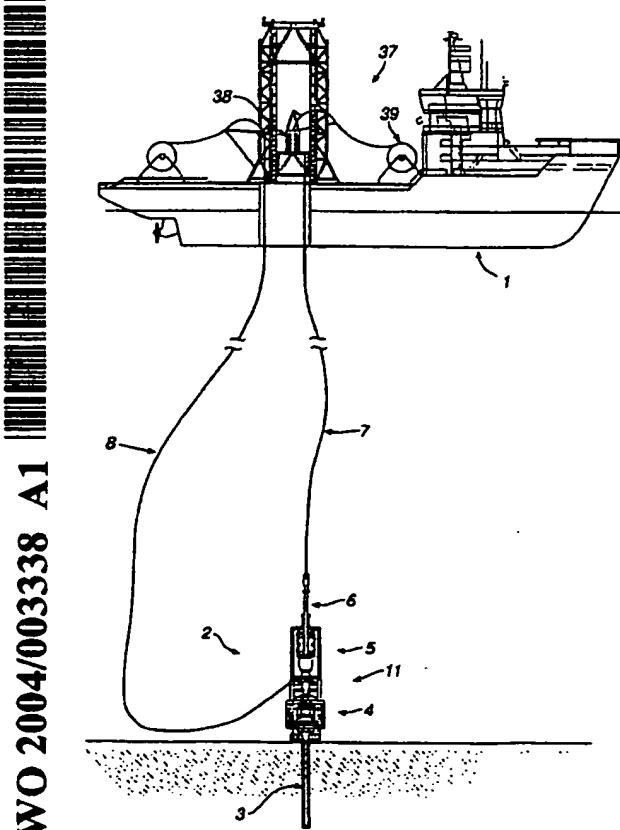
HEIM, Edgar, Johan [NO/NO]; Nymannsveien 165, N-4015 Stavanger (NO). WOLD, Sturla [NO/NO]; Dusaviktunet 4B, N-4029 Stavanger (NO). HOEN, Christopher [NO/NO]; Levretoppen 56, N-1346 Gjettum (NO).

(74) Common Representative: ABB AS; c/o ABB AB, Legal & Compliance/Intellectual Property, Forskargränd 8, S-721 78 Västerås (SE).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: AN ASSEMBLY AND A METHOD FOR INTERVENTION OF A SUBSEA WELL



(57) Abstract: A well assembly for intervention of a subsea well (3) or well head (4) by means of a wireline or a coiled tubing (7) connected to a toolstring, comprising a lubricator package (6), an injector package (5), and a well barrier package (11). The injector package (5) is adapted to inject the wireline or coiled tubing into the well or well head. The lubricator package (6) comprises lubricator means (13, 29, 30) defining a locking chamber via which said wireline or coiled tubing (7) is to be forwarded to the well (3) or the well head (4). The lubricator package (6), the injector package (5) and the well barrier package (11) are adapted to be fitted onto each other and to the well head (4). The injector module (12) is adapted to forward said lubricator means (13) through it, when said packages are connected to each other respectively and to the well head (4), for the purpose of injecting said wireline or coiled tubing (7) into the well or well head.

WO 2004/003338 A1



(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.